**Pneumonia Result:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Model | Epoch-1 | Epoch-15 | Epoch-32 | Epoch-49 |
| Model-1(accu-98.83%) | .5524 | .8609 | .8800 | .9214 |
| Model-2(accu-90.62%) | .5766 | 0.8397 | .9022 | .9103 |
| Model-3 (accu-84.38%) | .5766 | .8367 | .8891 | .9194 |

Activation function:

|  |  |  |  |
| --- | --- | --- | --- |
| Models | Activation Function (Input) | Activation Function (Hidden Layer) | Activation Function (Output) |
| Model-1 | ReLU | ReLU | ReLU |
| Model-2 | ReLU | ReLU | Softmax |

|  |  |  |  |
| --- | --- | --- | --- |
| Model-3 | TanH | TanH | TanH |

Diabetes Result:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Model | Training Accuracy | Test Accuracy |  |  |
| SVM | .8424 | .8424 |  |  |
| Logistic Regression | .8440 | .8434 |  |  |
| Decision Tree | .9933 | .7663 |  |  |
|  |  |  |  |  |

Heart Disease:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Model | Training Accuracy | Testing Accuracy |  |  |
| Logistic regression | 0.9154 | .9149 |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |